

Description:

The GlassHammer is inspired by the “Dynamic Overdrive”. Essentially, based off the venerable TubeScreamer...this circuit adds two different flavors of clipping (LED and silicon) as well as a nifty clean boost (center position/diode lift). This is one of my favorite sounding overdrives. Really works well and cleans up nicely with your guitar volume.

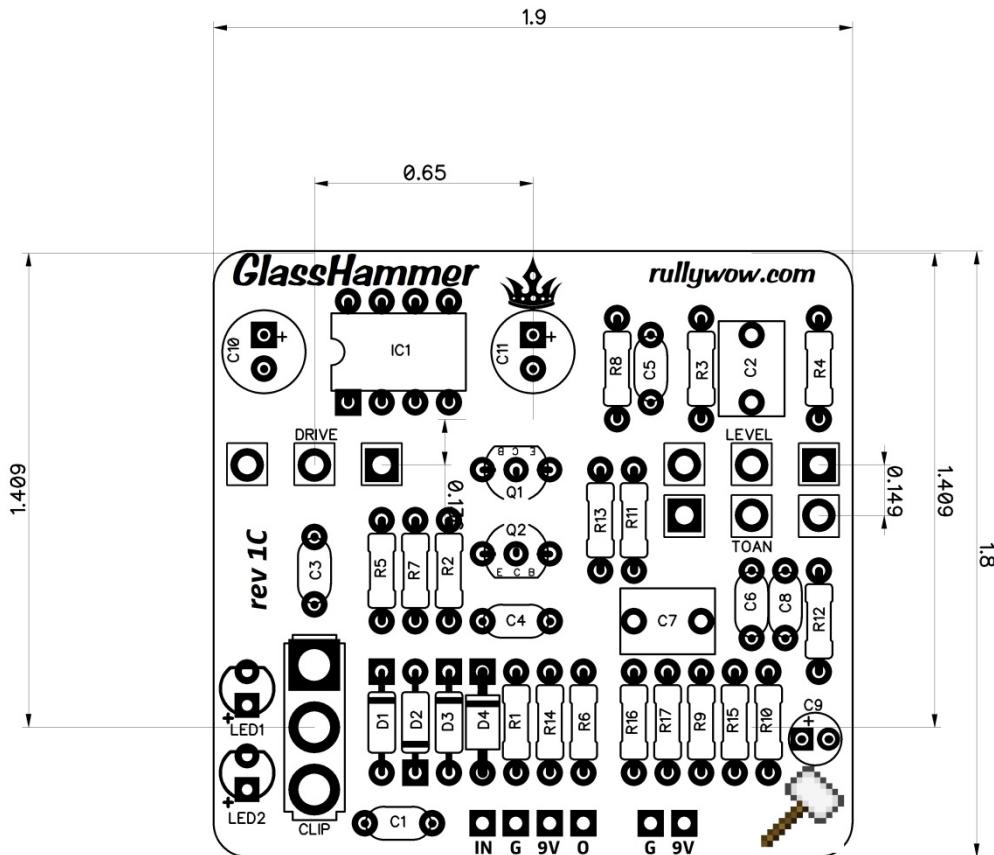
GlassHammer 1C BOM

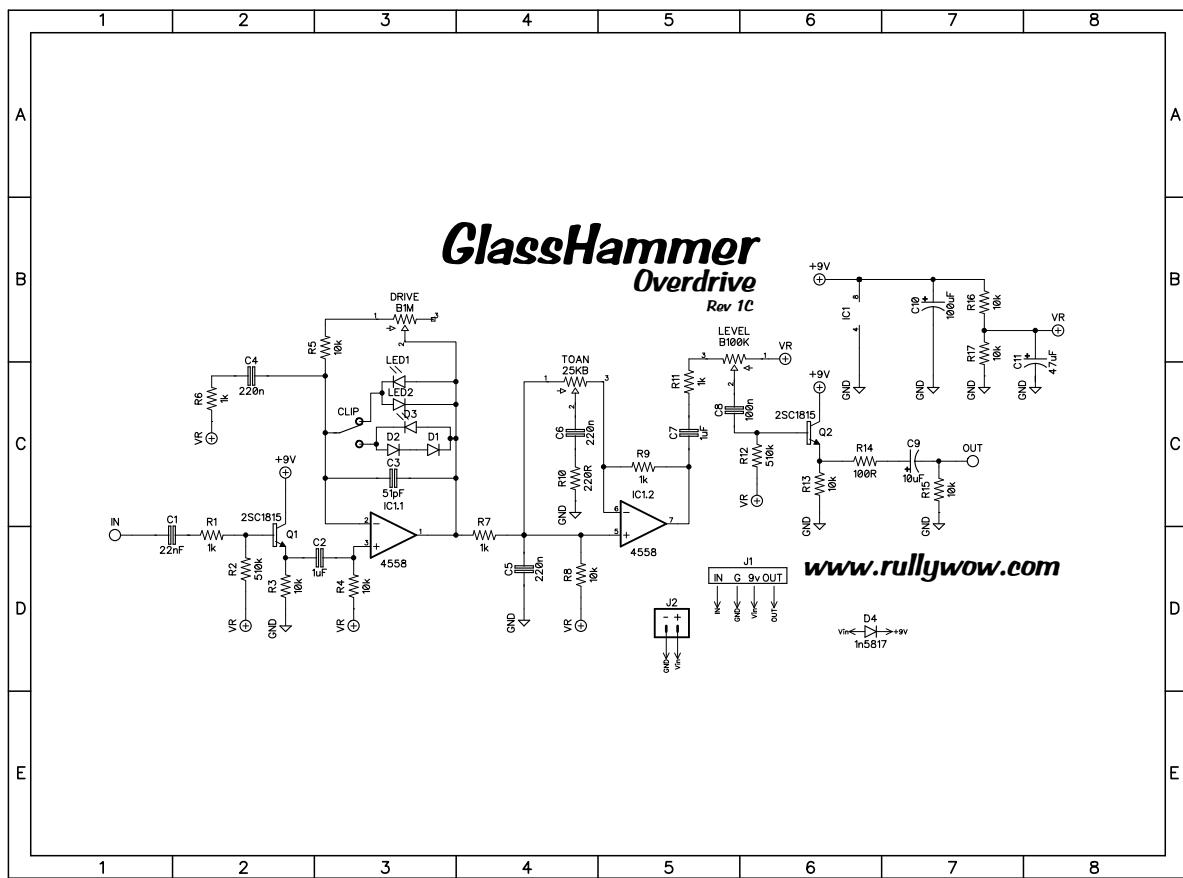
Caps			Resistors		Diodes	
C1	22nF	film	R1	1k	D1-D3	1n914
C2	1uF	film	R2	510k	D4	1n5817
C3	51pF	ceramic	R3	10k	LED1, LED2	3mm diffused red
C4	220n	film	R4	10k	Pots	
C5	220n	film	R5	10k	TOAN	25KB
C6	220n	film	R6	1k	DRIVE	B1M
C7	1uF	film	R7	1k	LEVEL	B100K
C8	100n	film	R8	10k	Transistors	
C9	10uF	electro	R9	1k	Q1/Q2	2SC1815
C10	100uF	electro	R10	220R	Switch	
C11	47uF	electro	R11	1k	CLIP	SPDT on/OFF/on
			R12	510k	IC	
			R13	10k	IC1	4558
			R14	100R		
			R15	10k		
			R16	10k		
			R17	10k		

Build Tips & Tricks:

- You can use different diodes rather than LEDs and 1n914. You may wish to socket these to experiment
- It is a good call to solder components from shortest height to tallest. In this case, you should start with resistors, diodes, film caps, IC, and the electrolytic caps last.
- The IN/G/9V/OUT pads are a direct match to Rullywow.com 3PDT and Optical Bypass PCBs
- All pots are 16mm Alpha PCB mount. It is a very good idea to drill holes in your enclosure first, and mount the pots and switch with the nuts **BEFORE** soldering the pots to the PCB. This ensures you won't put a lot of stress on the PCB and everything lines up nicely.
- Be sure to insulate the pots from shorting on the back of the PCB. There are special pot covers or you may use tape or some other insulating material.
- Before putting your creation into its enclosure, you should always test it! If it doesn't work outside the enclosure, it won't work inside (I promise!)

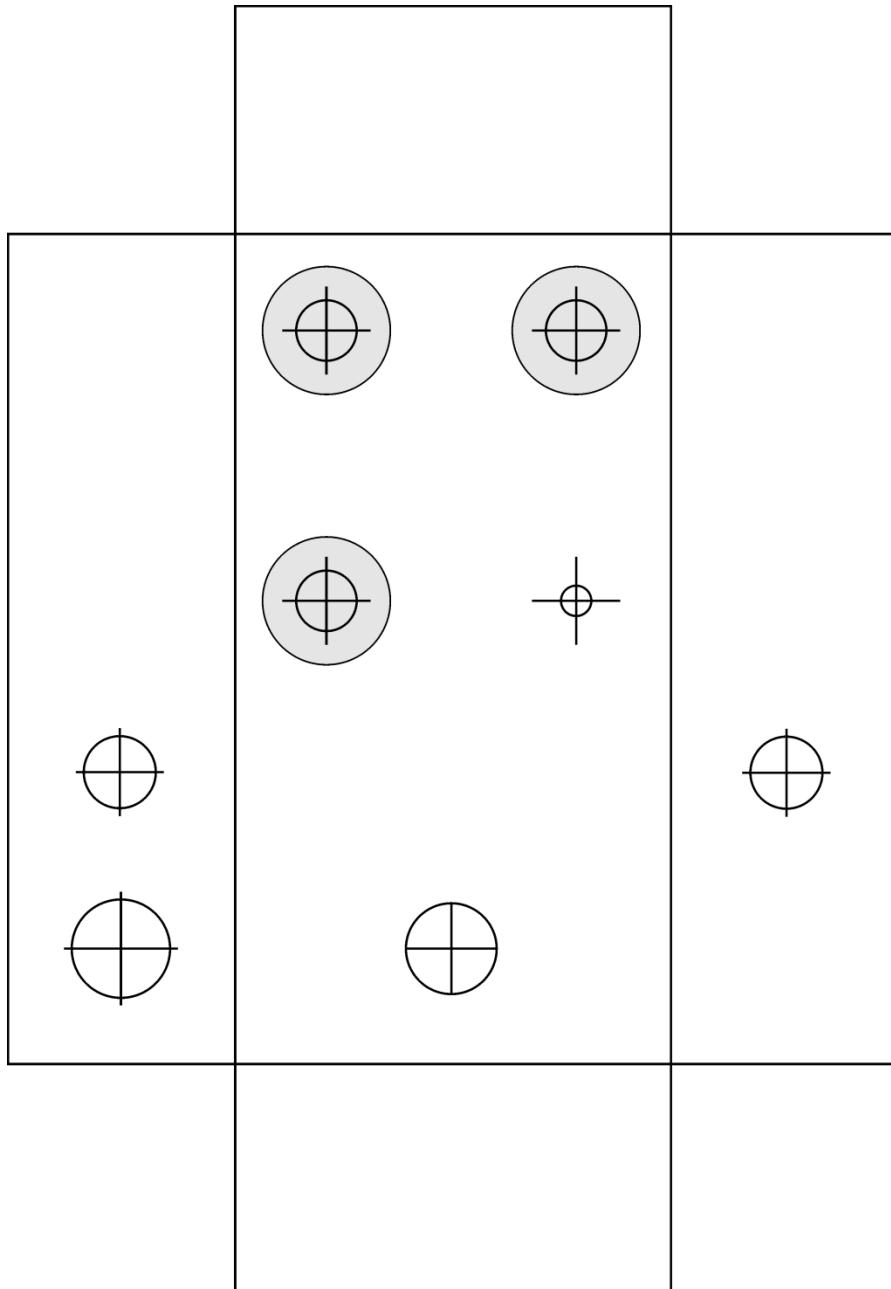
PCB Dimensions = 1.9" w x 1.8" h





Drill Guide (1590B) :

This is an **APPROXIMATE** drill guide. Enclosures differ in size so be sure to measure before your commit to drill!



Terms of Use:

- PCBs from www.rullywow.com are intended for DIY use and are not allowed for commercial resale. It is OK to build (and sell) a few pedals for your friends, bandmates, yourself (that is what the DIY guitar pedal community is all about!)